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**DATE:** February 22, 2012

**SUBJECT:** Organic Data Validation (Level M3)

Site: Dimock

Case: R33917, PROJECT: 480-15814-1

FROM:

**Ex. 4 - CBI** 

**TO:** Colleen Walling

**ESAT Region 3 Project Officer** 

# **OVERVIEW**

Third Party Case R33917, Project 480-15814-1, from the Dimock site consisted of twenty (20) aqueous samples analyzed for ethylene glycol, triethylene glycol, diethylene glycol, 2-methoxyethanol and 2-ethoxyethanol. All samples were submitted to TestAmerica Buffalo (TALBUF) for analysis. The sample set contained one (1) rinsate blank and three (3) field blanks. The samples were analyzed according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

### **SUMMARY**

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage 4 Validation Manual). Areas of concern with data usability are listed below.

# **MINOR PROBLEM**

• The samples were not preserved when received by the laboratory. Sample FB08, collected 2/01/2012, was analyzed 2/09/2012. The technical holding time of seven (7) days for unpreserved organic compounds in this sample was exceeded by one (1) day. No positive results were reported in this sample. Quantitation limits were qualified "UL" on the Data Summary Form (DSF).

# **NOTES**

• Compounds detected below the Reporting Limits (RLs) were qualified "J" on the DSFs unless superseded by "B".

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- All Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries and Relative Percent Differences (RPDs) were within control limits.
- Concentrations of target compounds found in the analysis of samples' associated rinsate, field and method blanks are listed below. Only compounds used to qualify data are listed. Samples with concentration of these contaminants less than five times (<5X) the blank concentration have been qualified "B" on the DSFs.

Blank Method (480-50789-1-A)	Compound diethylene glycol	Concentration 0.721 J mg/L	Affected Samples EB02, FB09, HW09-P, HW28A-P
Method (480-51003-1-A)	triethylene glycol diethylene glycol	_	HW40-P, HW46, HW46-P HW40-P, HW41, HW45, HW46, HW46-P
Rinsate (EB02)	triethylene glycol	4.0 J mg/L	HW28A-P

- Per method 8015B, tentative identification of a single component analyte occurs when a peak
  from a sample extract falls within the daily retention time window. Confirmation is required
  on a second column or by GC/MS. The laboratory did not perform second column
  confirmations. Since no positive results were greater than the RL, no action was taken by the
  reviewer based on this finding.
- The laboratory employed a four (4) point calibration curve instead of a five (5) point calibration curve specified in method 8015B. No data were qualified based on this finding.

### **ATTACHMENTS**

- 1) Appendix A Glossary of Data Qualifiers
- 2) Appendix B Data Summary Forms
- 3) Appendix C Chain of Custody (COC) Records
- 4) Appendix D Laboratory Case Narrative

DCN: R33917 Project 480-15814-1DimockM3

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